# Qualifications Presentation of Ace Info Solutions, Inc.

## Prepared for

## GovWorks Federal Acquisition Center

**September 17, 2004**

# Company Background

## Background

Ace Info Solutions, Inc. is an information technology consulting firm providing services to Fortune 1000 Companies and government agencies. The company is based out of Herndon, Virginia.

## Certifications and Contract Vehicles

◆ US SBA 8(a) Program: Case # 108620.

◆ CMM Level II Certification

◆ Small Disadvantaged Business (SDB) # WA00001-0009354 from U.S. Small Business Administration

◆ GSA Contract Vehicle - Schedule 70

◆ GSA 8(a) STARS (FAST 2) Contract Vehicle

◆ Virginia Minority Suppliers Development Council: Certified MBE, Council ID Number VA 1186

# Experience with Federal and State Agencies

- **EPA Office of Prevention, Pesticides and Toxic Substances (OPPTS):** Providing application support services include lotus notes, database management, network, and integration.

- **DOC - Minority Business Development Agency (MBDA):** Providing IT support services; GIS, internet/intranet, data management, and integration under GSA Schedule.

- **USDA - Office of Chief Financial Officer (ACFO):** Providing requirements development & documentation project support services include financial systems management, network, and integration.

- **CDC Information Technology Services (CITS)**- Providing systems/ software solutions include requirements analysis; design; web-based applications, programming, testing, COTS product customization.

- **EPA Office of Solid Waste and Emergency Response (OSWER):** Provided Contract Laboratory Program (CLP) Automation program & Independent Verification and Validation (IV&V) Support Services.

- **EPA Office of Superfund Technical Assessment & Response Team:** Performed technical support to EPA's site assessment activities and response, prevention and preparedness activities.

# Experience with Federal and State Agencies

- **DOJ - Office of Civil Rights and Justice Management Group:** Providing hardware and software; network; desktop solutions under Simplified acquisitions.

- **EPA Office of Solid Waste and Emergency Response (OSWER):** Provided Contract Laboratory Program (CLP) Automation program & Independent Verification and Validation (IV&V) Support Services.

- **EPA-Information Technology Solutions – Response Engineering and Analytical Contract (REAC) Proposal:** Tier I Partner with a prime contactor to provide GIS, data Management and systems management.

- **HUD Integrated Information Processing Services (HIIPS):** Provided IT management services include system requirements; design; network evaluation; intrusion detection; and technical document development.

- **EPA Regions I, II, III, IV:** Environmental Sciences and Engineering Projects include ESAT, RCRA, and CERCLA.

- **State Agencies: MDE, VADEQ, NJDEP, PADEP:** Environmental and Engineering Support Services.

# Past Performance in IT Task Areas

| Task Areas / Related Projects | Customer Service & Relationship Management | Communication Support | Information Security | Benchmarking and IV&V | System Definition & Functional Requirements | Technology Assessment | Support of Other Agency Contracts | Studies & Analysis in | Data Modeling & Architecture | Information Technology Roadmap & Planning Support | Technology Implementation Guidance & Support | Capacity Planning | Review & Analysis of System Compliance | Security Plan | Cross-Program Coordination | General Guidelines for Task Order Performance | Project Controls | Federal & Agency Standards & Policy | Task Order Initiation |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **EPA-OPPS** | ✓ | ✓ |  | ✓ | ✓ | ✓ | ✓ |  |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **DOC-MBDA** | ✓ | ✓ |  | ✓ | ✓ | ✓ | ✓ | ✓ |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **DOD-TOPS** | ✓ |  |  |  | = |  | ✓ |  |  | ✓ |  |  |  | ✓ |  | ✓ |  | ✓ |  |
| **USDA – ACFO** | ✓ | ✓ |  | ✓ | ✓ | ✓ | ✓ |  | ✓ |  | ✓ |  | ✓ | ✓ | ✓ | ✓ |  | ✓ | ✓ |
| **HUD** |  | ✓ |  |  |  |  |  |  | ✓ |  |  |  | ✓ |  |  | ✓ |  | ✓ |  |
| **EPA-OSWER** |  | ✓ |  | ✓ |  |  | ✓ |  |  | ✓ |  |  | ✓ |  | ✓ | ✓ |  | ✓ | ✓ |
| **EPA – ORD** | ✓ | ✓ |  | ✓ |  |  | ✓ |  |  | ✓ | ✓ |  | ✓ |  | ✓ |  |  | ✓ | ✓ |
| **EEI** | ✓ |  |  | ✓ | ✓ | ✓ |  |  | ✓ | ✓ | ✓ | ✓ |  | ✓ |  |  |  | ✓ | ✓ |

Current IT Task Areas (Major Task Area Only)

# Staff Experience in IT Task Areas

| AceInfo Key Staff | Current IT Task Areas (Major Task Area Only) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Customer Service & Relationship Management | Communication Support | Information Security | Benchmarking and IV&V | System Definition & Functional Requirements | Technology Assessment | Support of Other Agency Contracts | Studies & Analysis in | Data Modeling & Architecture | Information Technology Roadmap & Planning Support | Technology Implementation Guidance & Support | Capacity Planning | Review & Analysis of System Compliance | Security Plan | Cross-Program Coordination | General Guidelines for Task Order Performance | Project Controls | Federal & Agency Standards & Policy | Task Order Initiation |
| No of Staff | 4 | 9 | 3 | 4 | 5 | 3 | 5 | 4 | 4 | 3 | 4 | 6 | 2 | 2 | 2 | 3 | 2 | 4 |
| Avg. Yrs of Exp | 8 | 12 | 6 | 6 | 6 | 9 | 7 | 6 | 10 | 6 | 4 | 4 | 5 | 6 | 6 | 7 | 4 | 6 |
| Education | All of them have BS degree. Most of them possess advanced degrees | | | | | | | | | | | | | | | | | |
| Certifications | Most of them are certified in their respective technologies | | | | | | | | | | | | | | | | | |
| EPA Experience | Most of them are having experience with EPA Programs | | | | | | | | | | | | | | | | | |

*Note: Certain Staff are Experienced in Multiple Task Areas.*

# Key Focus Areas

- **Geographic Information Systems (GIS)**
  - Intranet/Internet Web-based GIS Application Development
  - COTS Package Integration GIS Tool Customization
  - GIS Database Development and Management
  - Data Mapping and Conversion
  - Training
  - Licensed Surveyors

- **Web Technologies**
  - Web Portals Development
  - Multiple Application Servers and Programming Languages
  - Relational Databases and Mainframes
  - Web Services: Access Data from Legacy and Mainframe Applications

- **Data Management and Business Intelligence**
  - Data Models
  - Data Dictionaries
  - Database Development
  - Database Administration
  - Data Conversion Data Warehousing

# Summary of Technologies

## Programming
- Cold Fusion, Lotus Notes, Domino, Visual Basic, ASP,JSP,COM/DCOM, C/C++ , Java, EJB, PL/SQL

## Applications & Databases
- Oracle, MS SQL Server, Sybase,
- DB2, PowerBuilder

## Data Warehousing & Business Intelligence
- Informtica, Cognos
- Business Objects

## GIS/Tools
- ArcIMS, MapObjects, ArcView, ArcSDE, ArcInfo, ArcCatelog, ArcMap, ArcToolbox, ArcGIS.

## Customer Support Applications
- DK Systems, Remedy, Blue Ocean Track It, Novell Group Wise.

## Architectures
- dot net, J2EE, MSDNA

## Web Application Server
- Web Logic, Web Sphere, IS

## Hardware/OS
- Unix:Sun Solaris,HP-UX,AIX
- Open VMS, dec Alpha
- Windows 98/NT/2000
- MVS, OS400 ,Novell Netware
- Linux, OS2 and DOS

## Network Based Applications
- Gateways, SunNet Manager, IBM NetView/6000, CheckPoint FireWall-1, Microsoft Exchange, Microsoft SMS, Microsoft IIS,and Citrix WinFrame

## Environmental Sciences & Engineering
- Hydrogeology (Groundwater , Contaminant Transport) Modeling
- EPA Policy and Guidelines Development (CERCLA, RCRA, SARA, TASCA, CWA, and OPA.
- Environmental, Health & Safety
- Multimedia Assessments
- Geotechnical Forensics

# Geographic Information Systems Qualifications

**September 17, 2004**

# Experience in GIS Support

| Clients/Projects | Geographic Information Systems Task Area | | | | Technologies Used |
|---|---|---|---|---|---|
| Technical Areas | Requirements | Design (Geo Spatial, logical, physical data models, application design) | COTS Package Integration | Web Based Applications | |
| EPA, RSMS | ● | | | | • **ArcInfo, ArcMap** |
| DOC, MBDA Congressional Info Mgmt System | ● | ● | ● | ● | • **ArIMS, ArcView** • **ArcMaps, ArcSDE** |
| DOT, ITOPS (AceInfo Team) | ● | ● | ● | ● | • **Intergraph/ Microstation** |
| DOC, MBDA, Resource Locator & Congressional Information System | ● | ● | ● | ● | • **PAMAP GIS** |
| DC Government (Central GIS, Atlas, Vector Property) | ● | ● | ● | ● | • **SPANS EXPLORER** • **GeoMedia** |
| Facility and Asset Mgmt, USDA | ● | ● | ● | ● | • **MapQuest, MapObjects** |
| Nightlights Global Power Monitoring | ● | ● | ● | ● | • **IDRISI** |
| State Historical Preservation Office, Idaho | ● | ● | ● | ● | |

# Key Staff Experience in GIS

| AceInfo Team | Geographic Information Systems Task Area | | | | | | |
|---|---|---|---|---|---|---|---|
| | Bachelors Degree | Advanced Degree | Number of Years | Certifications | Federal Experience | GIS Related Experience | Technology Expertise |
| **Dr. Erwin Villiger** | ◯ | ◯ | 10 | ◯ | ◯ | ◯ | ERDAS, Imagine, ESRI Tools, Avenue, ENVI |
| **Dr. Yanli Gong** | ◯ | ◯ | 15 | ◯ | ◯ | ◯ | ESRI Tools (Arc*, ArIMS, Map Objects, ArcSDE) MapQuest, PAMAP  GIS, IDRISI, ERDAS, |
| **Dr.  Vidya Prasad** | ◯ | ◯ | 12 | ◯ | ◯ | ◯ | SAS, ESRI Tools(Arc*, ArIMS, ArcXML) MapInfo |
| **Tessa Christie** | ◯ | ◯ | 10 | ◯ | ◯ | ◯ | Cartography, Mga, Iplot, Iscan, Arc*, ArcView |
| **Dr. Raj Cherukuri** | ◯ | ◯ | 8 | ◯ | ◯ | ◯ | ESRI Tools, Geomedia Professional, GeoMedia Web Map, MGE, Image Analyst, ArcXML |
| **Chuck Harrison** | ◯ | | 15 | ◯ | ◯ | ◯ | ESRI Tools, .Net Solutions |

# GIS in the Enterprise



Enterprise Data

Spatial Data

Spatial Database Engine

Internet Server

Internet

Java

HTML

Custom

GIS clients

Handheld

Internal Users

# Core Technology

- **RDBMS**
  - Proprietary datasets
  - Business functions
  - FM systems
- **Spatial Database Engine**
  - Stores geographic objects in an RDBMS
- **Web server**
  - For distributed operations
- **Java-based or client-side application**
- **Customized tools**

# Key Considerations

- **Data sources and validity**
  - Data migration
  - Data links
  - Spatial data availability
- **Infrastructure**
  - Bandwidth
  - Storage capacity
- **Application migration**
- **Training for spatial thinking**

# Example Implementation Process



| Initiate Project | Inventory and Analysis | Model Enterprise | Planning Phase | Implementation |
|---|---|---|---|---|
| Define Project Objectives | Evaluate Science Discipline Requirements | Informational Needs Assessment Report | Identify Components | System Install and Configuration |
| Define Success Factors | IT Assessment | Architectural Assessment: Hardware Software Network | Determine Resources | Development, Conversion and Population of Database |
| Define Team Members and Environment | Customer-Centric Business Process Assessment | Define Enterprise Architectural Score Card | Identify Component Priorities | Software Tool/ Conversion – Development |
| | Review Goals | Review Enterprise Goals | Create Enterprise & Review Roadmap | Staffing/ Training |
| | Executive Briefing/ Document | | | Testing & Quality Assurance |

# Example 1: MBDA, Dept. of Commerce
## (page 14 of 19)

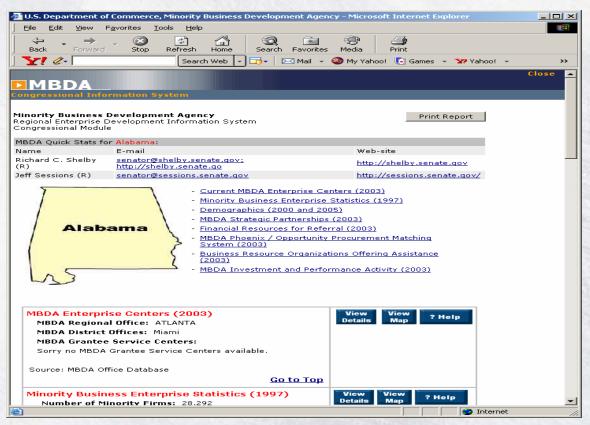1.  **Business and Resource Locator System, Department of Commerce**



A web portal that provides help to minority owned businesses by finding the organizations that specialize in starting, operating and expanding businesses. Technologies Used: Oracle, MS Sql Server, Cold Fusion, ESRI Tools, etc.

16

**AceInfo**

2. **Congressional Information Management System, Department of Commerce**



A web portal that provides access to minority owned businesses within senatorial and congressional district areas. Technologies Used: Oracle, ArcSDE, ArcIMS, Map Quest, Cold Fusion, etc.
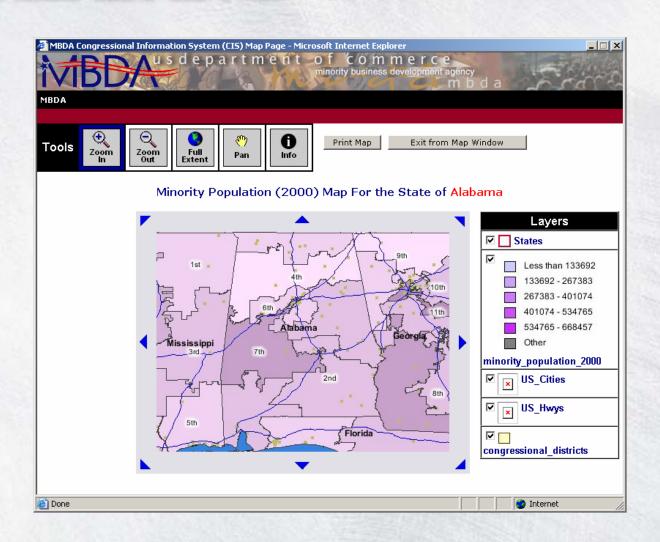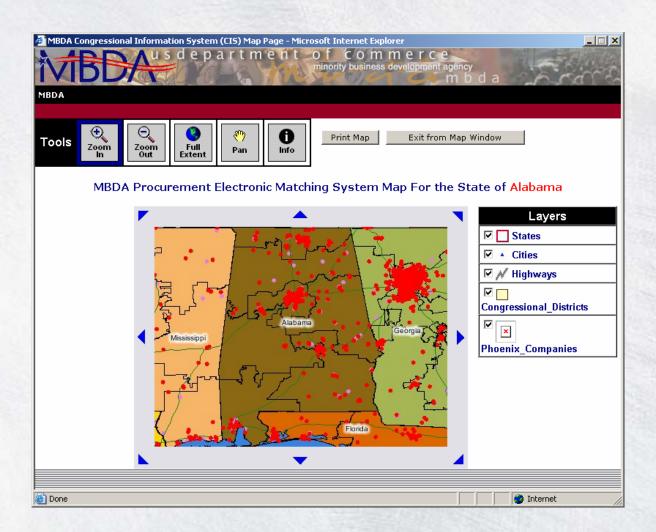
**Commerce Secretary Gold Award!**

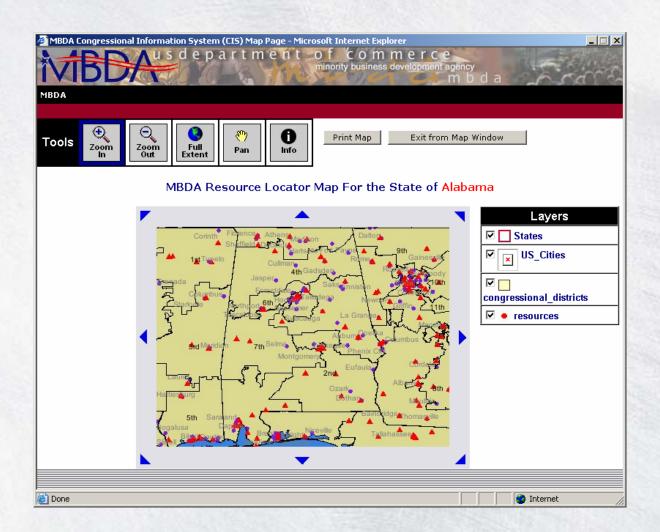# MBDA, Dept. of Commerce (page 16 -19)

# MBDA, Dept. of Commerce (page 17 -19)
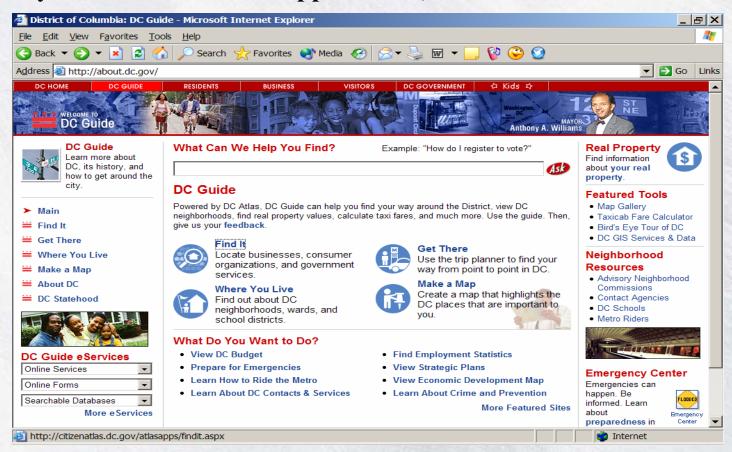
# MBDA, Dept. of Commerce (page 18 -19)

# MBDA, Dept. of Commerce (page 19 -19)

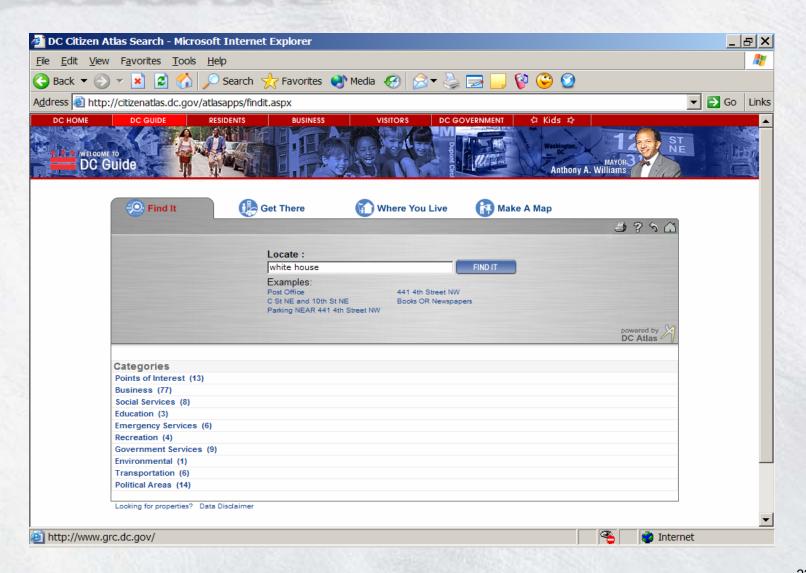# Example 2: District of Columbia Guide/Atlas (page 21 of 28)

- **City Wide Geodatabase Applications, District of Columbia**



Managing multiple GIS applications: Central GIS, DC Atlas, Emergency Atlas, Citizen Atlas, Vector Property Map. Technologies Used: Oracle Enterprise, ArcSDE.
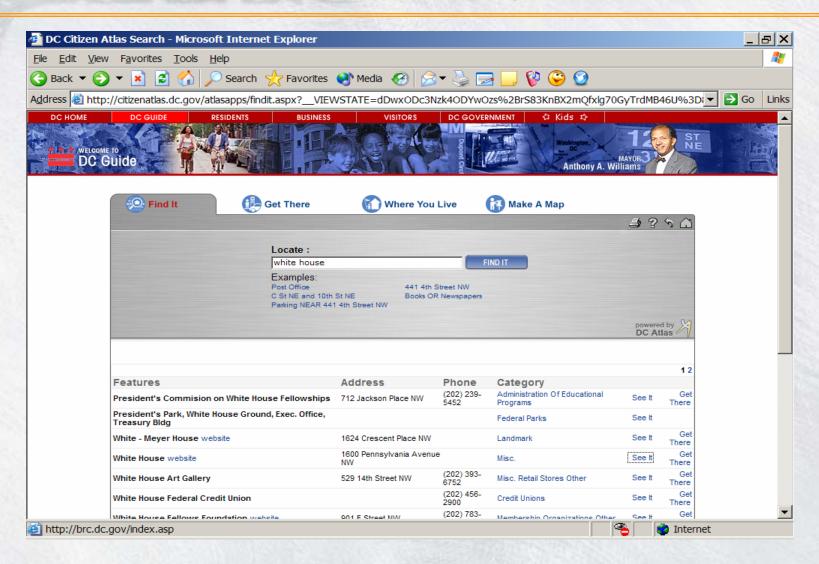
# District of Columbia (page 22 of 28)

# District of Columbia (page 23 of 28)
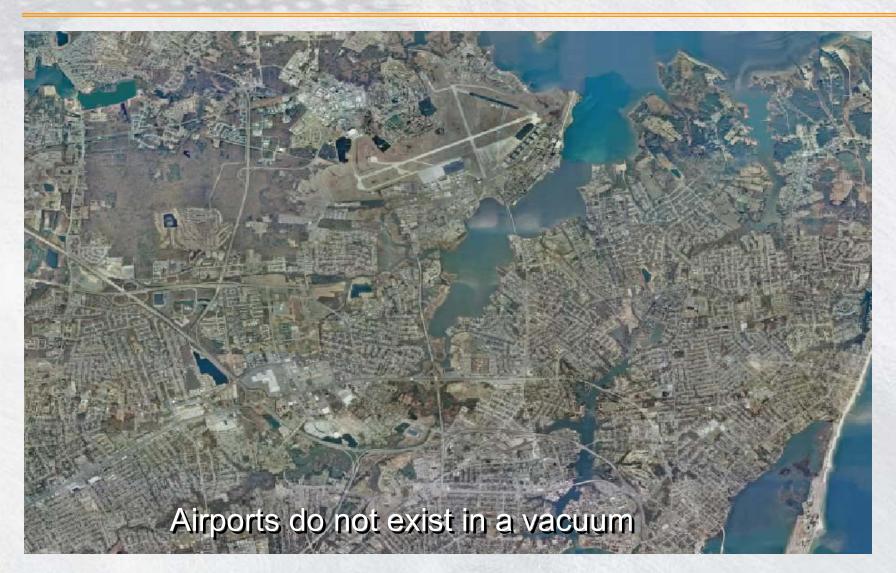
Airports are complex entities

# Facility Management
## (Page 29 of 30)

- Resource awareness and management
- Leasing and space management
- Utility infrastructure
- Building use and contents
- Maintenance scheduling
- Security measures and vulnerabilities
  - Physical and personnel
  - Accessibility
  - Response resources

Airports do not exist in a vacuum

# Project Summaries

- **Facility and Asset Management System, USDA**

  Developed Facility Security system and high-interest asset (including aircraft and vehicles) tracking system for 7 USDA agencies. Involved integration of multiple databases and data streams for mapping and managing security status of facilities, internal and external risks or vulnerabilities, asset location and value.

- **Nightlights Global Power Monitoring System**

  GIS based system for monitoring global nightlights emissions during Y2K turnover. System integrated near-realtime DMSP satellite data for mapping nighttime visible light, assessing electric service and infrastructure and determining regions with catastrophic outages.

- **State Historical Preservation Office, Idaho**

  Web-based Internet Mapping and data collection system for state officers to collect current information on historic cultural site for preservation purposes. Utilized handheld GIS, cellular connectivity, internet-based GIS data delivery and update.

# Systems & Software Process Approach Methodology

**September 17, 2004**

# Software Lifecycle Development Approach

| Develop Functional and Technical Specifications | Design Architectures and Design Document | Develop Alpha Version and Perform Unit Testing | Perform QA and System Testing | Develop Final Version and Documentation |
|---|---|---|---|---|
| • Provide guidance to build specifications<br>• Build functional and technical specifications<br>• Develop requirements traceability matrix<br>• Obtain a requirements phase end sign-off | • Develop Application and Network Architectures<br>• Identify interfaces to other applications<br>• Identify components and data models<br>• Prepare design document | • Code to the design specifications<br>• Conduct code review<br>• Perform Unit testing<br>• Make changes based on unit testing<br>• Develop QA Plan and test scripts | • Migrate software to integrated test environment<br>• Perform integration testing<br>• Document test results<br>• Document comments | • Make Changes based on QA and testing<br>• Implement in production environment<br>• Develop user manuals for functional and technical personnel to maintain the application |

## Overall Project Deliverables

- Business and Technical Requirements
- Design Document
- System Documentation

- Project Plan
- QA Plan and Test Scripts
- Fully Tested and Robust Application

# Implementation Methodology

- **Executive, Business, and Technology Sponsors' buy in is a must**

- **Phased Iterative Implementations with frequent deliverables**

- **Prototypes deliver!!**

- **Multi-prong training strategy**

▶ **Phase 3+**

**Phase 2**

**Phase 1**



Implementation Roadmap — Analyze & Plan — Design — Construct & Deploy — Revisions

**3 -4months**

**3 months**

**3 months**

# Management Approach - Project Management

## PROJECT MANAGEMENT

| Project Management | Change Management | Knowledge Man agement |
|---|---|---|
| Planning & Tracking<br>Scheduling<br>Budgeting & Financials<br>Project Rollups<br>Dependency Management | Organizational Change Management<br>Executive Alignment<br>Issue Manage ment<br>Risk Management<br>Change Control<br>Requirements Management<br>Collaboration | Methodology Implementation<br>Document Management<br>Deliverable Reuse<br>Management Reporting<br>Knowledge Transfer<br>Architecture Integration<br>  Management |

## QUALITY MANAGEMENT

| PM Processes | PM Tools | PM Competencies |
|---|---|---|

# Management Approach - Change Management

## CHANGE CONTROL — HIGH LEVEL FLOW

| Initiation | Review | Analysis & Approval | Reporting |
|---|---|---|---|
| A change request is initiated by completing the Change Request Form. Any deficiencies corrected or efficiencies gained by the change should be described. | The Change Request Form is reviewed for completeness and the request is approved or rejected. If approved assign an individual or team to the change review task. | The individual/team researches the change in full and develops a full description of the benefits of the proposed change, an impact analysis, and alternatives. If the change is approved, the tasks are added to project responsibilities. | All forms and analysis are forwarded to the project manager and PO/APO for logging. The Project Manager is also responsible for informing all staff affected by any changes. |

# Environmental Sciences & Engineering Experience

- CERCLA (Field Investigation, Assessment)

- Hydrogeology (Groundwater Modeling, Contaminant Transport)

- Risk Assessment

- Feasibility Studies

- Technology Evaluation & Remediation Action

- Policy and Guidelines Development (CERCLA, RCRA, SARA, TASCA, CWA, and OPA.

- Environmental, Health & Safety Compliance

- NPDES (Industrial, Surface Water, Non-point Discharge)

- Multimedia Assessments

- Due Diligence Phase I & II Environmental Assessment

- Geotechnical Forensics

# Alliances

- **Certified Resellers/Solutions Providers**
  - Microsoft Corporation – dot Net Applications
  - Cognos Corporation – Data Warehousing and Business Intelligence
  - IBM Corporation - Lotus Notes
  - Dell Computers
  - HP (Hardware and Printers)
  - Veritas (Network Backup)
  - Tech Data Corporation

- **Teaming Agreements**
  - American Management Systems
  - InDyne, Inc.
  - Tetra Tech EM, Inc.
  - SRA Corporation
  - Lockheed Martin Corporation

# Staff Capabilities

♦ **Experience**

AceInfo Staff is comprised of highly educated professionals with PhDs and Masters degrees in Sciences and Engineering

♦ **Education**

Most of the AceInfo Staff has 10+ years of industry experience in various government agencies and private sector. Some staff has security Clearances.

♦ **Certifications**

- Project Management Institute (PMP)
- Microsoft Corporation (MCSD and MCSE)
- Oracle Corporation (Oracle 8i & 9i)
- Sun (Certified Java Programmers)
- Lotus Notes (Certified Lotus Professionals)
- Professional Engineer
- Professional Geologist

# For More Information

## Contacts……...

**VC Reddy, Vice President**

**Mobile: (240) 498-7176**

**vcreddy@aceinfosolutions.com**

**Ace Info Solutions, Inc.**
**2388 Dakota Lakes Drive**
**Oak Hill, VA 20171**
**Tel.: 703-464-1282, Fax: 703-689-9711**
**www.aceinfosolutions.com**